

O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 153

GLACIAL ACETIC ACID



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OTTAWA, April 28, 1908.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon 45 samples of Glacial Acetic Acid, purchased in retail drug shops, throughout the Dominion, in February of this year.

Of this number, 34 samples contain 95 per cent or more by weight, of real acetic acid, and these I have adjudged as genuine. The British Pharmacopeia, as well as that of the United States, requires Glacial Acetic Acid to contain 99 per cent of true acid. Exposure to moist air, from the frequent unstoppering of bottles, in the ordinary business of dispensing, may account for a dilution of a few units per cent, and I have considered it reasonable to regard as genuine all samples reaching 95 per cent strength.

Eleven (11) samples are decidedly below the standard strength, two samples falling to about 50 per cent.

It is to be remarked that the British Pharmacopeia, in addition to Glacial Acetic Acid, describes an Acetic Acid of 33 per cent strength, and a diluted Acetic Acid of 4·27 per cent.

I would respectfully recommend the publication of this report as Bulletin No. 153.

I have the honour to be, Sir,
Your most obedient servant,

A. MCGILL,
Chief Analyst.

INSPECTION OF GLACIAL ACETIC ACID—BULLETIN 153.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report.	Results of Analysis.		Remarks and Opinion of the Chief Analyst.
						Weight	Capacity	
1908.								
Feb. 13	Glacial acetic acid.	32601 National Drug Co., Halifax, N.S.	30	Unknown.	Said to be manufactured in England	96	12	1 058 Genuine.
" 18	"	32602 Brown Bros. & Co., Halifax, N.S.	40	National Drug Co., Halifax, N.S.	"	97	64	1 060 "
" 21	"	32603 A. C. Bell, New Glasgow, N.S.	25	"	"	97	97	1 057 "
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.								
Feb. 15	Glacial acetic acid.	31219 A. W. Puddin, Charlottetown 8 oz.	30	National Drug Co., Halifax.	"	96	00	1 060 Genuine.
" 15	"	31220 McDonald & McKinnon, 8 oz., Charlottetown.	35	Lyman Sons & Co., Montreal	"	96	51	1 060 "
" 18	"	31221 A. W. P. Gourlie, Summer 8 oz., side.	30	Lyman, Knox & Co., Montreal	"	73	03	1 068 Below B. P. strength.
DISTRICT OF PRINCE EDWARD ISLAND—T. MOORE, INSPECTOR.								
Feb. 15	Glacial acetic acid.	28638 Nat. Drug & Chem. Co., Ltd., Mill St., St. John, N.B.	72	Not known.	"	98	29	1 056 Genuine.
" 21	"	28639 Fairweather Brothers, Main St., Moncton, N.B.	30	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	"	98	29	1 053 "
Mar. 7	"	28640 Hunt & McDonald, Fredericton, N.B.	30	Lyman Sons & Co., Montreal	"	93	96	1 064 "
DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.								
Feb. 12	Glacial acetic acid.	28638 Nat. Drug & Chem. Co., Ltd., Mill St., St. John, N.B.	72	Not known.	"	98	29	1 056 Genuine.
" 21	"	28639 Fairweather Brothers, Main St., Moncton, N.B.	30	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	"	98	29	1 053 "
Mar. 7	"	28640 Hunt & McDonald, Fredericton, N.B.	30	Lyman Sons & Co., Montreal	"	93	96	1 064 "

DISTRICT OF QUEBEC E. BELAND, INSPECTOR.

Feb. 10	Glacial acetic acid.	26379 A. E. Michon, Montmagny ..	8 oz.	25 T. E. Livernois, Quebec ..	.....	78.29	1.073 Below B. P. strength.
" 12	"	26391 E. O. Cloutier, Riviere du Loup ..	8 "	50 W. Brunette & Cie, Quebec ..	.....	76.40	1.072 "
" 12	"	26396 Dr. T. Kane, Riviere du Loup ..	8 oz.	40 Lyman Sons & Co. ....	.....	98.36	1.062 Genuine.
"	"	Station, P.Q.					

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Feb. 14	Glacial acetic acid.	27945 D. Belneau, Arthabaska ..	8 oz.	30 Dr. Massicotte, Victoriaville. Taken from a gal. bottle marked "Acid Acetic Glacial."	.....	97.56	1.064 Genuine.
" 20	"	27946 A. E. DuBerger, Thetford ..	8 "	40 Lyman, Knox & Co., Montreal ..	.....	94.46	1.073 "
" 24	"	27947 Pharmacie Ostigny, Ste. Hya ..	8 "	30 Lyman Sons & Co., Montreal ..	.....	97.36	1.060 "
"	"	cintho.					

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Feb. 13	Glacial acetic acid.	32566 Henri Lautier, 820 St. Law- rence St., Montreal.	8 oz.	35 Not known.....	.....	96.77	1.064 Genuine.
" 14	"	32567 Leo G. Ryan, 545 Notre Dame ..	8 "	40 "	.....	98.96	1.061 "
" 18	"	32568 Dr. J. E. St. Pierre, Valley ..	8 "	30 Lyman Sons & Co., Montreal ..	.....	81.13	1.06 Below B. P. strength.
		field, P.Q.					

DISTRICT OF OTTAWA—J. A. RICKY, INSPECTOR.

Feb. 21	Glacial Acetic Acid	34115 E. M. Ahern, Ottawa.	8 oz.	45 Lyman Sons & Co., Montreal	Taken from bottle marked Acid Acetic Glacial 99% Lyman Sons and Co., Mfg., Montreal.	97.55	1.061 Genuine.
"	"	15, Campion ..	8 "	35 Ottawa Drug Co., Ottawa ..	Bottle Labeled Glacial Acetic Acid.	98.11	1 "
		15, T. Rochester, Ltd., Ottawa ..	8 "	45 Nat. Drug Co., Ottawa ..	Vendor said it was taken from bottle labeled 99%.	97.72	1.066

INSPECTION OF GLACIAL ACETIC ACID—BULLETIN 153.

Nature of Sample.	Date of Collection.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher as given by Vendor.		Inspector's Report.	Results of Analysis.	Remarks and Opinion of the Chief Analyst.
				1/2 lb.	1 lb.			
1908.								
Feb. 10	Glacial Acetic Acid	33961 W. W. Gibson, King St., 8 oz., Kingston.	40	H. Skinner & Co., Kingston.			96.38	1.061 Genuine.
" 10	"	33062 H. Wade, King St., Kingston 8 "	40	Not known.			98.20	1.054 "
" 10	"	33063 H. Skinner, Princess St., 8 oz., Kingston.	40	Nat. Drug Co., Montreal.			97.08	1.053 "

DISTRICT OF KINGSTON—J. HOGAN, INSPECTOR.

Feb.	Glacial Acetic Acid	35027 Walker & Abbs, 236 St. Paul 8 oz., St. St. Catherine.	25	Dom. Drug Co., Hamilton.	Sample taken from dispensing room.	95.39	1.063 Genuine.
" 29	"	35028 H. W. Pow, 60 Erie Ave., Niagara Falls.	40	"	"	97.08	1.060 "
Mar. 3	"	35029 Chas. Wilson, 339 Cathurst 8 "	40	Lyon, Knox & Clarkson, To	Sample taken from stock bottle on	97.25	1.055
" 11	"	St., Toronto.			shelf.		

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Feb.	Glacial Acetic Acid	3470 E. J. Nasmith, Stratford.	70	J. Winer, Hamilton		96.76	1.063 genuine.
" 25	"	3482 Frank H. Smith & Co., Drug St., Mary.	50	London Drug Co., London, Ont.		51.25	1.036 Below B. P. strength.
" 11	"	3488 Walter McKittoon, Wingham 8 "	50	Lyman Bros. & Co., Toronto.		73.11	1.071 "

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Feb.	Glacial Acetic Acid	3470 E. J. Nasmith, Stratford.	70	J. Winer, Hamilton		96.76	1.063 genuine.
" 25	"	3482 Frank H. Smith & Co., Drug St., Mary.	50	London Drug Co., London, Ont.		51.25	1.036 Below B. P. strength.
" 11	"	3488 Walter McKittoon, Wingham 8 "	50	Lyman Bros. & Co., Toronto.		73.11	1.071 "

DISTRICT OF WINSTON-J. TALBOT, INSPECTOR.

Feb. 18	Acetic Acid.	34541 H. O. Fleming	30	40 London Drug Co. ....	.....	.....	95.39	1.055 Genuine.
" 19	"	34511 G. H. Gunn & Co., Chatnall. 8 "	"	30 Winer & Co., Hamilton. ....	.....	.....	96.29	1.056
" 20	"	34517 Anderson & Nelles, London. 8 "	"	25 National Drug Co. ....	.....	.....	95.14	1.056 Below B. P. strength. May have been sold as Acetic Acid, not as Glacial Acetic Acid.
" 21	"							

DISTRICT OF MANITOBA—A. C. LARIVIÈRE, INSPECTOR.

Feb. 20	Glacial Acetic Acid	25871 W. J. Carson, Killarney, Man. 8 oz.	40	Not given .....	.....	.....	97.71	1.081 Below B. P. strength
" 24	"	25872 Glenboro Drug Store, Glenboro, Man.	35	The Role Drug Co., Winnipeg. ....	.....	.....	79.13	1.076
" 28	"	25873 The Pulford Leonard Drug Co., Carmen, Man.	35	The Pulford Leonard Drug Co., Winnipeg, Man.	.....	.....	80.02	1.076

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Feb. 21	Glacial Acetic Acid	28886 O. H. Bott, Calgary.	8 oz.	80 Martin Ball Wayne, Winnipeg, Man.	.....	.....	90.93	1.087 Genuine.
" 21	"	28887 Jas. Findlay & Co., Calgary 8 "	"	80 Unknown .....	.....	.....	95.30	1.084
" 21	"	28888 W. Maclean, Calgary.	8 "	80 Dom. Drug Co., Hamilton. ....	.....	.....	97.38	1.088

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Feb. 17	Glacial Acetic Acid	34221 J. W. Morrow, Cor. Hastings 9 oz., and Seymour Sts., Vancouver, B.C.	36	Henderson Bros., Ltd., Vancouver, B.C.	.....	.....	99.01	1.055 Genuine.
" 17	"	34222 Woods Pharmacy, Cor. Hastings 9 oz., and Seymour Sts., Vancouver, B.C.	45	"	"	"	98.58	1.059
" 17	"	34223 Wm. Harrison Co., Ltd., 9 oz., Cor. Granville and Pender Sts., Vancouver, B.C.	50	"	"	"	81.79	1.07 Below B. P. strength.

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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Quantity	Inspector's Report.	RESULTS OF ANALYSIS.		Remarks and Opinion of the Chief Analyst.
							Specific Gravity of Acid.	Specific Gravity of Sample.	
DISTRICT OF VICTORIA—D. O. SULLIVAN, INSPECTOR.									
Feb. 28	28	Glacial Acetic Acid	34863 D. E. Campbell, Victoria, 8 oz.	30	Lyman & Son, Montreal, Que.	.....	97.08	1.060	Genuine.
"	28	"	34866 W. Jackson & Co., Victoria, 8 "	50	Henderson Bros., Victoria, B.C.	.....	96.59	1.056	"
"	28	"	34869 Geo. A. Fraser, Victoria, B.C. 8 "	30	"	.....	96.09	1.049	"